USER'S MANUAL

Mini printers
/ version v1.9 /

DICKEY-john

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1. INTRODUCTION

Portable or desktop: The DPP-xx series may be used as a desktop/wall-hung unit or as a hand-held/belt-hung, battery-operated unit to meet a wide variety of needs. It is ideal for EFT (electronic fund transfer) and POS (point of sales) transactions, in-the-field receipting and other applications that require a small foot print and/or portability. It also offers in-vehicle receipting for taxi and other public transportation provides.

Impact and thermal: The DPP-xx series also offers a choice of printing technologies – impact dot matrix and direct line thermal option are available.

Wide interface range: The DPP-xx series also offer for RS-232C serial interface, Serial TTL interface, and Infrared communication interface (IrDA)

Warning *:Please read this manual to understand the printer before use !*

1.1. Features

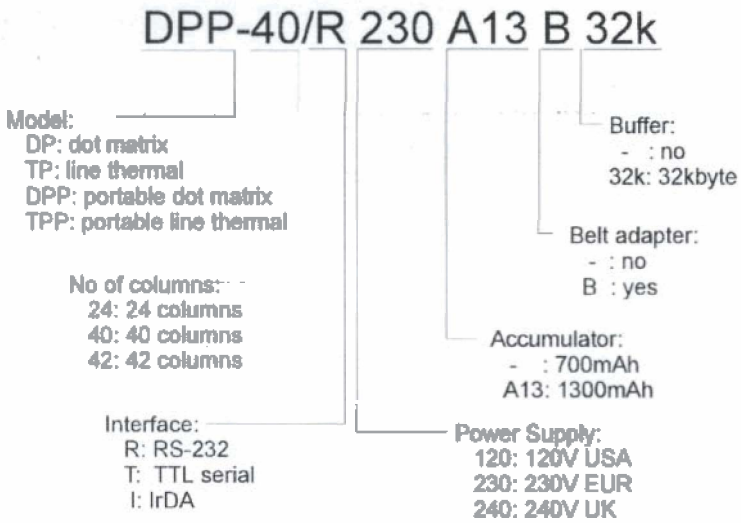
- Portable and/or Desktop applications
- Impact or thermal print option
- RS-232C, TTL serial or IrDA interface
- 57 mm wide paper
- Paper end detector
- Text and graphics mode
- OEM version available
- Customised case colours

1.2. Accessories

- Paper roll	(1 roll)
- Ribbon cassette (only on dot matrix)	(1 pc.)
- AC adapter	(1 pc.)
- User's Manual	(1 pc.)
- Accumulator (only on portable type)	(1 pc.)

2. TYPE CLASSIFICATION

2.1. Type



2.2. AC adapter

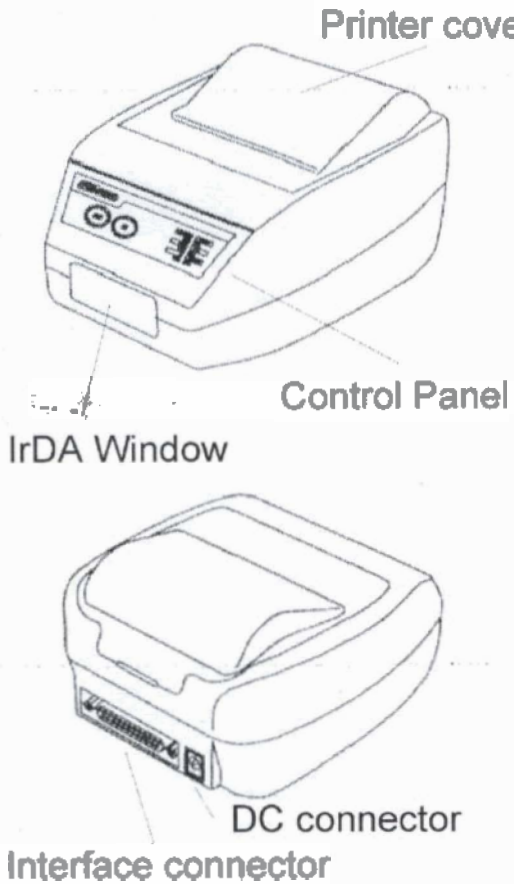
Model No:MW1208

Warning: Please use the exclusive adapter indicated below !

Model	DP-24/DP-40	DPP-24/DPP40	TP-24/TP-42	TPP-24/TPP42
Printing method	impact dot matrix		Direct line thermal	
Printer mechanism	MD-900 series (Citizen)		LT-286 (Citizen)	
No of columns for text mode	24/40 char/line		24/42 char/line	
graphics mode	144/180 dots/line		384 dots/line	
Printing speed	2.5/1.8 line/sec		6 line/sec	4 line/sec
Paper width	57mm + - 0.5mm			
Paper roll diameter	50mm			
Paper end detector	optional		Yes	
Ink ribbon cassette	IR-91 (black or purple)			
Interface	RS-232			
	optional TTL serial			
	optional IrDA standard 1.0 ver.			
Buffer	1 line			
	optional 32kbyte			
Power supply	AC 110/120/230V			
	DC 12V 800mA	DC 12V 500mA	DC 12V 800mA	DC 12V 500mA
Rechargeable battery		NiCd 700mAh		NiCd 700mAh
		optional NiMH 1300mAh		optional NiMH 1300mAh
Weight	0.4 kg			
Dimension (W x D X H)	105x150x75			
Operating temperature range	0 - 50 C		-10 - 50C	
Storage temperature range	-20 - 50C			
Reliability	MCBF 1 million lines		Head 50 million pulse or 50km	
Case colours	Antracid grey / Indigo blue / beige			

3. EXTERNAL APPEARANCE AND PARTS' DESCRIPTIONS

3.1. External appearance



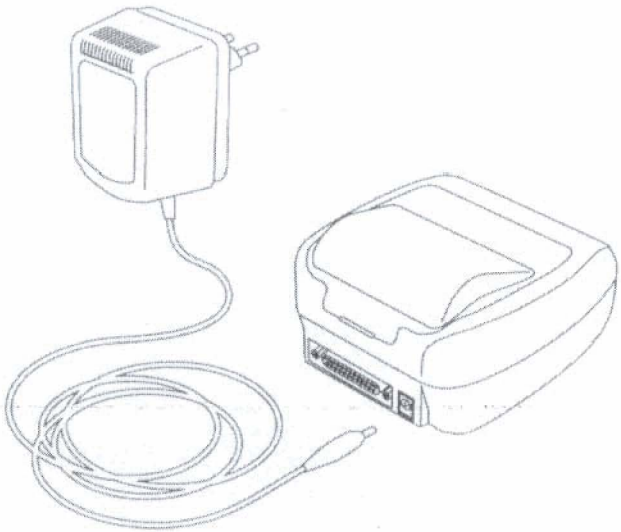
3.2. Control Panel

4. OPERATIONS

4.1. Connecting the AC adapter

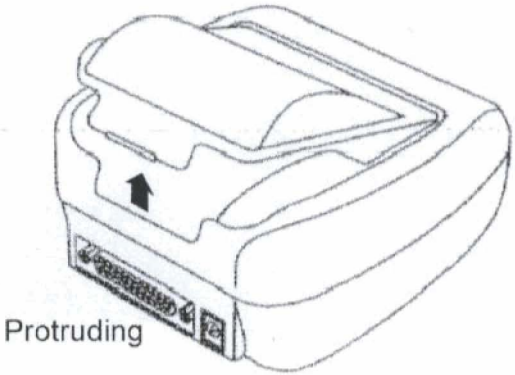
(1) Ensure that the power switch is OFF.
(2) Insert the output plug of the AC adapter into the DC jack of the printer.
(3) Insert the power plug of the AC adapter into a power consent supplying the designated voltage.

Warning : *Use of exclusive AC adapter is recommended. Output is DC 12V/800mA. Avoid using power sources not conforming to this specification.*



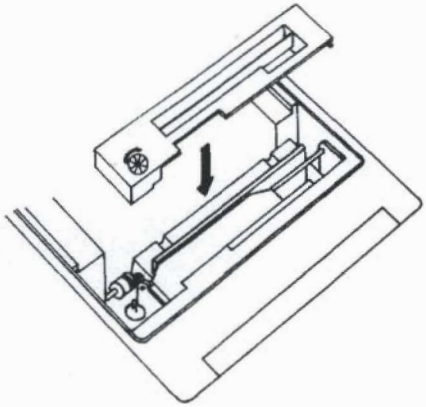
4.2. Setting of the printer cover

(1) Hold the protruding section at the rear of the printer cover and lift in the direction indicated.
(2) Attach the cover by pressing downward after hooking the cover to the acceptor located in the front part.



4.3. Setting ribbon cassettes

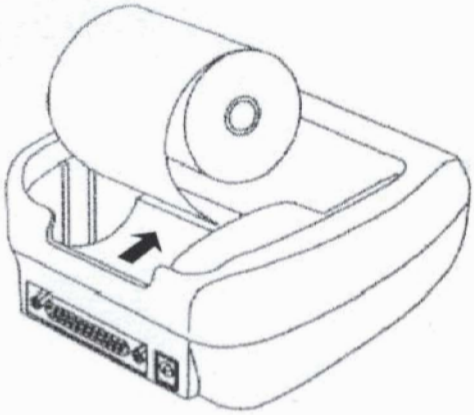
(1) Remove the printer cover after turning OFF the printer.
(2) Press down on the ribbon cassette while inserting the ribbon between the printing head and platen.
(3) Wind up the ribbon slack by turning the knob in the direction of the arrow.



4.4. Setting paper

(1) Remove the printer cover.
(2) Ensure that the end of the paper is straight or incline.
(3) Insert the end of the paper into the slot of the printer mechanism.
(4) After turning on the printer, press LF switch until 5 to 6 cm of paper is fed out of the printer mechanism.
(5) Insert paper after moving aside the paper holder in the direction of the arrow. Then, secure the center of the roll with the holder.
(6) Then, attach the printer cover so the end of the paper comes out of the opening in the cover.

Warning : *The device should only be used with paper in it otherwise the lifetime of the ribbon cartridge gets shorter.*



4.5. Power managenemt

In most of application which contains printer the printer works only short time of operation, but it is power ON under full operation.
If DIP-4 switch OFF may be turn On the printer DSR signal. If DIP-3 switch OFF may be turn On the printer via IrDA connection.

4.6. Self test printing

A self-printing function is in corporate in this product to enable the printer to check itself.

(1) Set paper to the printer.
(2) Ensure that the ribbon cassette is attached correctly and turn the power OFF.
(3) Turn ON the power switch while holding the LF switch down. Release the LF switch after the self-printing operation has started.

Printing is initiated by this operation. To end self-printing, turn OFF the printer.

4.7. HEX Dump printing

If you printing the slef test function and switch on the <LF> button the printer state will the HEX dump state. This state printing every character hex code.

4.8. General notices

- Never operate your printer without loading paper and ribbon cassette. Any printing without paper and ribbon cassette may cause damage to printer head.

- Replace ribbon cassette before it is worn with rents.

- Be careful not to drop any foreign matters, such as paper clips, pin and the like into your printer. Those can cause mechanical trouble.

- Nothing shall be placed on the radiation vents to the printer.

- No organic solvent /thinner, benzin or the lie/ shall be used in sweeping clean the surface of the main body case.

5. INTERFACE

5.1. Serial interface

9 PIN D_SUB Female connector		
Signal PIN	Signal Name	Function
2	RxD	Received Data
4	DTR	Printer Busy
5	GND	Signal Ground
6	DSR	Switch ON

25 PIN D_SUB Female connector		
Signal PIN	Signal Name	Function
3	RxD	Received Data
7	GND	Signal Ground
20	DTR	Printer Busy

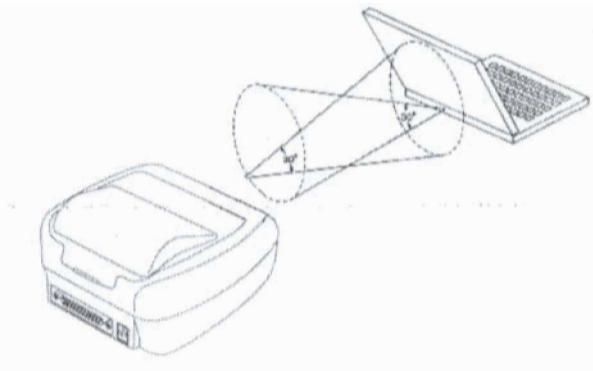
Note : D-SUB connector
25 PIN Printer : 17LE-13250 (Amphenol equvivalent)
25 PIN Cable : 17JE-23250 (Amphenol equvivalent)
9 PIN Printer : 17LE-13090 (Amphenol equvivalent)
9 PIN Cable : 17JE-23090 (Amphenol equvivalent)

5.2. IrDA interface

Carrier: Infrared radiation
(peak wavelength: 850 to 1050 nm)
Communication distance:
Between 0 cm and 100 cm
Infrared transmission speed:
9.6, 19.2, 38.4, 57.6, 115.2 kbps

5.2.1. Positioning for data transfer

In general, you connect the printer Print to your computer to enable wireless printing. The infrared lens must be in a direct line of sight with the infrared lens on opposite side. Devices transmit data in a 30-degree cone of infrared light, as shown in the following diagram.



Ascertain whether both infrared devices are within this 30-degree cone. Data transmission will fail if one of the devices is turned too far to the right or to the left or is much higher or lower than the other device.

6. DIP SWITCH SETTING

DP-xx series			
DIP	Function	OFF	ON
1	Printer RESET		Reset
2	Baud rate selection	Userdef	9600n81
3	Auto ON	Off	On
4	Switch On via DSR	Enable	Disable

DPP-xx series			
1	Printer RESET		Reset
2	Baud rate selection	Userdef	9600n81
3	Switch On via IrDA	Enable	Disable
4	Switch On via DSR	Enable	Disable

7. CHARACTER SET

7.1 Character set

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	NUL 0	16	SP 32	0 48	@ 64	P 80	96	p 112	128	144	160	176	192	208	224	240
1	17	! 33	1 49	A 65	Q 81	a 97	q 113	129	145	161	177	193	209	225	241
2	DC2 18	" 34	2 50	B 66	R 82	b 98	r 114	130	146	162	178	194	210	226	242
3	DC3 19	# 35	3 51	C 67	S 83	c 99	s 115	131	147	163	179	195	211	227	243
4	DC4 20	$ 36	4 52	D 68	T 84	d 100	t 116	132	148	164	180	196	212	228	244
5	21	% 37	5 53	E 68	U 85	e 101	u 117	133	149	165	181	198	213	229	245
6	22	& 38	6 54	F 70	V 86	f 102	v 118	134	150	166	182	199	214	230	246
7	23	' 39	7 55	G 71	W 87	g 103	w 119	135	151	167	183	200	215	231	247
8	CAN 24	(40	8 56	H 72	X 88	h 104	x 120	136	152	168	184	201	216	232	248
9	25	) 41	9 57	I 73	Y 89	i 105	y 121	137	153	169	185	202	217	233	249
A	LF 26	* 42	: 58	J 74	Z 90	j 106	z 122	138	154	170	186	203	218	234	250
B	ESC 27	+ 43	; 59	K 75	[91	k 107	{ 123	139	155	171	187	204	219	235	251
C	28	, 44	< 60	L 76	\ 92	l 108	| 124	140	156	172	188	205	220	236	252
D	CR 29	- 45	= 61	M 77	] 93	m 109	} 125	141	157	173	189	206	221	237	253
E	SO 30	. 46	> 62	N 78	^ 94	n 110	~ 126	142	158	174	190	207	222	238	254
F	31	/ 47	? 63	O 79	- 95	o 111	127	143	159	175	191	208	223	239	255

Please, send any comments, suggestion or errors to:

Service Administrator

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FOR GAC 2100 instruments,
please setup your instrument as below :

POWER ON

MAIN MENU

***(4) SETUP*, Enter**

***(7) COM* Enter**

(2) COM1 Format
Output format : PRN20
Line Terminator : CR,LF

(3) COM1 DATA SETUP
Baud Rate : 1200
Data Bit : 8
Parity : None
Stop Bit : 1

(4) COM1 Control :
Busy(11) : ACTIVE (+)
DTR(20) : ACTIVE